

AND OIL & GAS ADMINISTRATION

OIL CON. DIV.
DIST. 3
150-151-30300

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-29200

Address: 200 Amoco Court, Farmington, NM 87401

Facility or Well Name: JICARILLA CONTRACT 155-31

Location: Unit or Qtr/Qtr Sec H Sec 29 T 26N R 5W County RIO ARriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: RANGE

Pit Location: Pit dimensions: length 38', width 27', depth 12'
(Attach diagram)
Reference: wellhead X, other _____
Footage from reference: 125'
Direction from reference: 35 Degrees _____ East of North X
_____ West of South

Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	<u>20</u>
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) (0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet Greater than 100 feet	(10 points) (0 points)	<u>0</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)	Yes No	(20 points) (0 points)	<u>0</u>
Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 20

BJ465 / SEP. PIT

Date Remediation Started: _____ Date Completed: 11/1/96

Remediation Method: Excavation ☒ Approx. cubic yards 275
Check all appropriate (ions) Landfarmed ☒ Insitu Bioremediation _____
Other _____

Remediation Location: Onsite ☒ Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: ExcavationGroundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location see Attached Documents
Closure Sampling: _____
(if multiple samples, attach sample results and diagram of sample locations and depths)
Sample depth 13' (PIT Bottom)
Sample date 11/1/96 Sample time 0920
Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>0.0</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>32</u>	Total Xylenes	(ppb)	_____

Groundwater Sample: Yes _____ No ☒ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 11/1/96 PRINTED NAME Buddy D. Shaw
SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO _____ (REASON) _____SIGNED: Kevin M. Marshall DATE: 11-5-96

C.O.C. NO: _____

PAGE No: 1 of 1

DATE STARTED: 11/1/96

DATE FINISHED: _____

ENVIRONMENTAL
SPECIALIST: NV

CONTRACTOR: PAS

EXCAVATION APPROX. 38 FT. x 27 FT. x 12 FT. DEEP. CUBIC YARDAGE: 275

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARMED

LAND USE: RANGE LEASE: JICA CONTR. 155 FORMATION: PC/MV

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 125 FT. N35W FROM WELLHEAD.

DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCB RANKING SCORE: 20 NMOCB TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION:

CHECK ONE :

✓ PIT ABANDONED

STEEL TANK INSTALLED

FIBERGLASS TANK INSTALLED

PALE RED SILTY CLAY TO CLAY, NON PLASTIC, SLIGHTLY MOIST, STIFF TO VERY STIFF, NO APPARENT HC ODOR IN ANY OF THE OVM SAMPLES, NO APPARENT HC STAINING OR ODOR OBSERVED w/in THE EXCAVATION.

CLOSED

FIELD 418.1 CALCULATIONS

FIELD 4.8.1 CALCULATIONS							
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0920	⑤e 13'	TPH-1852	5	20	1:1	8	32

SCALE

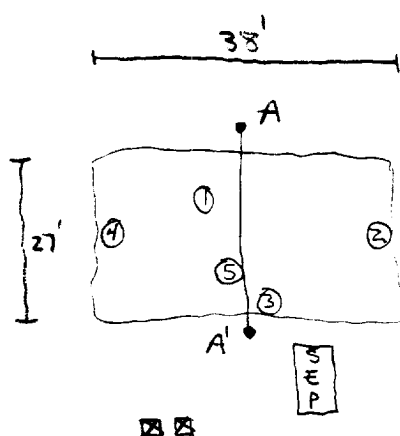


O FT

PIT PERIMETER

OVM RESULTS

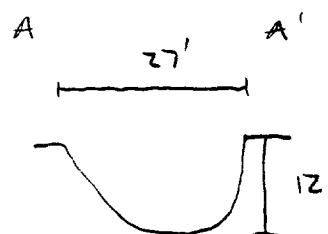
PIT PROFILE



FENC

STEEL
TANK
PIT

TO
WELL
HEAD

[illegible]

TRAVEL NOTES:

CALLOUT: 10/31/96 MORN. ONSITE: 11/1/96 MORN.

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

**FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS**

Client:	AMOCO	Project #:	
Sample ID:	5 @ 13'	Date Analyzed:	11-01-96
Project Location:	Jicarilla Contract # 155 - 31	Date Reported:	11-01-96
Laboratory Number:	TPH-1852	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	32	20

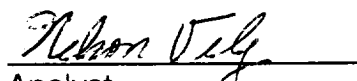
ND = Not Detectable at stated detection limits.


QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	4640	4400	5.31

*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Separator Pit - BJ465


Analyst


Review

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Max Characters:

Client:

Sample ID:

Project Location:

Laboratory Number:

AMOCO

5 @ 13'

Jicarilla Contract # 155 - 31

TPH-1852

Project #:

Date Analyzed:

Date Reported:

Sample Matrix:

11-01-96

11-01-96

Soil

Sample Weight: 5.00 grams
Volume Freon: 20.00 mL
Dilution Factor: 1 (unitless)
TPH Reading: 8 mg/kg

TPH Result: 32.0 mg/kg
Reported TPH Result: 32 mg/kg
Actual Detection Limit: 20.0 mg/kg
Reported Detection Limit: 20 mg/kg

QA/QC:

Original
TPH mg/kg

4640

Duplicate
TPH mg/kg

4400

%
Diff.

5.31

Comments:

*****Max Characters*****

Comments:

Separator Pit - BJ465

**JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528**

BJ465

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: AMOCO PRODUCTION COMPANY **Telephone:** (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA CONTRACT 155 - 31
Location: Unit or Qtr/Qtr Sec H Sec 29 T 26N R 5W County RIO ARIZONA
Land Type: RANGE

Date Remediation Started: 11/1/96 **Date Completed:** 8/15/97
Remediation Method: Landfarmed ☒ **Approx. cubic yards** 275
Composted ☐
Other ☐

Depth To Groundwater: (pts.) 10
Distance to an Ephemeral Stream (pts.) 0
Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance To Surface Water: (pts.) 0
RANKING SCORE (TOTAL POINTS): 10

Final Closure Sampling:

Sampling Date: 8/12/97 **Time:** 1150
Sample Results:
Field Headspace (ppm) 0.0
TPH (ppm) N/D **Method** 8015
Other

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 8/15/97 **PRINTED NAME** Buddy D. Shaw
SIGNATURE Buddy D. Shaw **AND TITLE** Environmental Coordinator

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO ☐ (REASON)

SIGNED: Kurt C. Mammill **DATE:** 9-2-97

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>8J465</u> C.B.C. NO: <u>5140</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME <u>JICARILLA CONTR.</u> ISS WELL #: <u>31</u> PITS: <u>SEP</u>	DATE STARTED: <u>8/12/97</u> DATE FINISHED: _____
QUAD/UNIT: <u>H</u> SEC: <u>29</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>
QTR/FOOTAGE: <u>SE/4 NE/4</u> CONTRACTOR: <u>P&S</u>	

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 275

LAND USE: RANGE

LIFT DEPTH (ft): 6"-12"

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCB RANKING SCORE: 10 NMOCB TPH CLOSURE STD: 1000 PPM

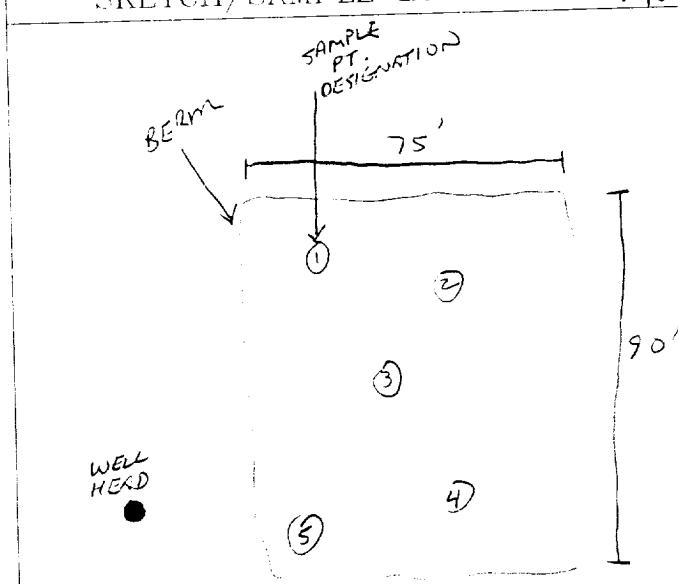
MOSTLY OK. YELL. BROWN SILTY SAND TO SILTY CLAY, NON COHESIVE TO SLIGHTLY COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT DISCOLORATION OR HC ODOOR OBSERVED @ ANY OF THE 5 SAMPLE PTS. NO APPARENT HC ODOOR OBSERVED W/IN OVM SAMPLE, 5 PT. COMPOSITE COLLECTED FOR LAB ANALYSIS.

CLOSED

FIELD 419.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SKETCH/SAMPLE LOCATIONS ↑ N



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE FID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (2015)	1150	ND

SCALE



TRAVEL NOTES:

CALLOUT: _____

ONSITE: 8/12/97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

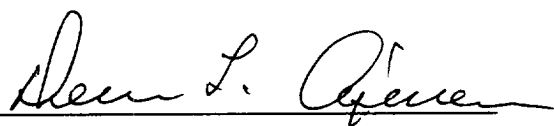
Client:	Blagg / Amoco	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	08-13-97
Laboratory Number:	B820	Date Sampled:	08-12-97
Chain of Custody No:	5140	Date Received:	08-13-97
Sample Matrix:	Soil	Date Extracted:	08-13-97
Preservative:	Cool	Date Analyzed:	08-13-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

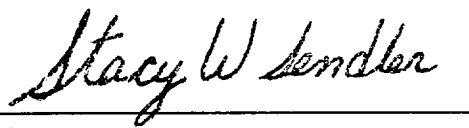
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **Jicarilla Contract 155-31 Landfarm.
5 pt. Composite.**


Analyst


Review

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615